

PAT-NO: JP02003023770A
DOCUMENT-IDENTIFIER: JP 2003023770 A
TITLE: SWITCHED CAPACITOR TYPE STABILIZING POWER UNIT

PUBN-DATE: January 24, 2003

INVENTOR-INFORMATION:

NAME COUNTRY
FUJITA, TOSHIYUKI N/A

ASSIGNEE-INFORMATION:

NAME COUNTRY
SHARP CORP N/A

APPL-NO: JP2001206126
APPL-DATE: July 6, 2001

INT-CL (IPC): H02M003/07

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a switched capacitor type stabilizing power unit small in mounting area, which outputs a reset signal, when the output voltage is abnormal.

SOLUTION: In the switched capacitor type stabilizing power unit, which is equipped with a boosting circuit, consisting of a capacitor C1 and switching elements SW1-SW4 and switches the charge and discharge of the capacitor C1 by the switching action of the switching elements SW1-SW4 thereby boosting and outputting a DC voltage Vin to be applied to an input terminal IN at discharge of the capacitor C1, an output voltage monitoring circuit 13, which monitors the presence of output abnormality, where the voltage of a capacitor C3 is goes outside of the specified range and issues an output abnormality occurrence signal S2 if output abnormality occurs, and a reset signal transmitting circuit 14, which transmits a reset signal S3 to a terminal 7, when it receives the output abnormality occurrence signal S2, are mounted on a single- chip semiconductor integrated circuit device 30.

COPYRIGHT: (C) 2003, JPO